

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 92-080

REISSUANCE OF WASTE DISCHARGE REQUIREMENTS FOR:

CITY OF PETALUMA
PETALUMA RIVER MAINTENANCE DREDGING
SEDIMENT DISPOSAL SITE
SONOMA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, finds that:

1. The City of Petaluma, Engineering Department (hereinafter the Discharger) submitted a report of Waste Discharge, dated July 2, 1992, for a discharge from its sediment disposal facility. The facility consists of impoundment ponds which are located on property owned by the City of Petaluma (Attachment A).
2. These Waste Discharge Requirements supersede Order No. 88-127, issued July 20, 1988, for this facility. The 1988 Requirements were issued to the U.S. Army Corps of Engineers for maintenance dredging of the Petaluma River. Since that time, the Corps has determined that the permit for upland disposal should be held by the City of Petaluma, which is the property owner and project sponsor. Therefore, these Requirements are issued to the City of Petaluma.
3. Operation of the impoundment ponds will be similar to previous dredging episodes covered under the previous WDR. The Discharger proposes to hydraulically dredge approximately 115,000 cubic yards of sediment from the Petaluma River with direct placement in the impoundment pond.
4. These requirements are for the discharge of return-flow water from dredge material handling and disposal operations.
5. The impoundment ponds are located adjacent to Adobe Creek (Attachment B)
6. The beneficial uses of the Petaluma River are:
 - a. Water contact recreation.
 - b. Contact water recreation
 - c. Cold water habitat
 - d. Wildlife habitat

- e. Marine habitat
- f. Preservation of rare and endangered species
- g. Fish Migration and spawning
- h. Navigation
- i. Preservation of Rare and endangered species
- j. Fish Spawning

7. The Board, on December 17, 1986, adopted a revised Water Quality Control Plan (Basin Plan) which contains water quality objectives for the Petaluma River. The requirements of this document are consistent with that Plan.
8. The action to adopt waste discharge requirements for this facility is exempt from the provisions of the California Environmental Quality Act (CEQA), in accordance with Section 15304, Title 14, California Administrative Code.
9. The Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for this discharge.
10. The Board, in a public meeting, heard and considered all the comments pertaining to the discharge.
11. IT IS HEREBY ORDERED that the City of Petaluma in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Discharge Prohibitions:

1. The direct discharge of wastes (including dredged sediment material) to surface waters or surface water drainage courses is prohibited.
2. The discharge shall not cause degradation of any water supply.
3. The discharge shall remain within the designated disposal area at all times.
4. The dredge and disposal shall not cause a nuisance as defined in Section 13050(m) of the California Water Code.

B. Specifications

1. At no point within a containment area or cell shall the elevation of sediment exceed that of the levees, berms or other containment structures.

C. Effluent Limitations

Wastewater (decant water, return water) discharged from the disposal area shall

not exceed the following limits of quality at any time:

- (i) pH: 6.5 - 8.5
- (ii) Settleable matter: 1.0 ml/hr
- (iii) Dissolved sulfide: 0.1 mg/l

C. Receiving Water Limitations

1. The dredging and/or disposal of waste (i.e., sediments) shall not cause:

- a. Floating, suspended or deposited macroscopic particulate matter or foam in waters of the State at any place more than 100 feet from the dredge or point of discharge of the return flow.
- b. Bottom deposits or aquatic growth in waters of the State at any place.
- c. Alteration of apparent color beyond present natural background levels in waters of the State at any place more than 100 feet from the dredge or point of discharge of the return flow.
- d. Visible floating, suspended, or deposited oil or other products of petroleum origin in waters of the State at any place.
- e. Waters of the State to exceed the following quality limits at any point:

Dissolved Oxygen	5.0 mg/l minimum When natural factors cause lesser concentrations, then this discharge shall not cause further reduction in the concentration of dissolved oxygen.
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Dissolved Sulfide	0.1 mg/l maximum.
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pH	A variation of natural ambient pH by more than 0.2 pH units.
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Toxic or other deleterious substances	None shall be present in concentrations or quantities which may cause deleterious effects on aquatic biota, wildlife or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of
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biological concentrations.

2. Turbidity of the waters of the State at any point beyond the 100 feet of the discharge of the return flow shall not increase above background levels by more than the following:

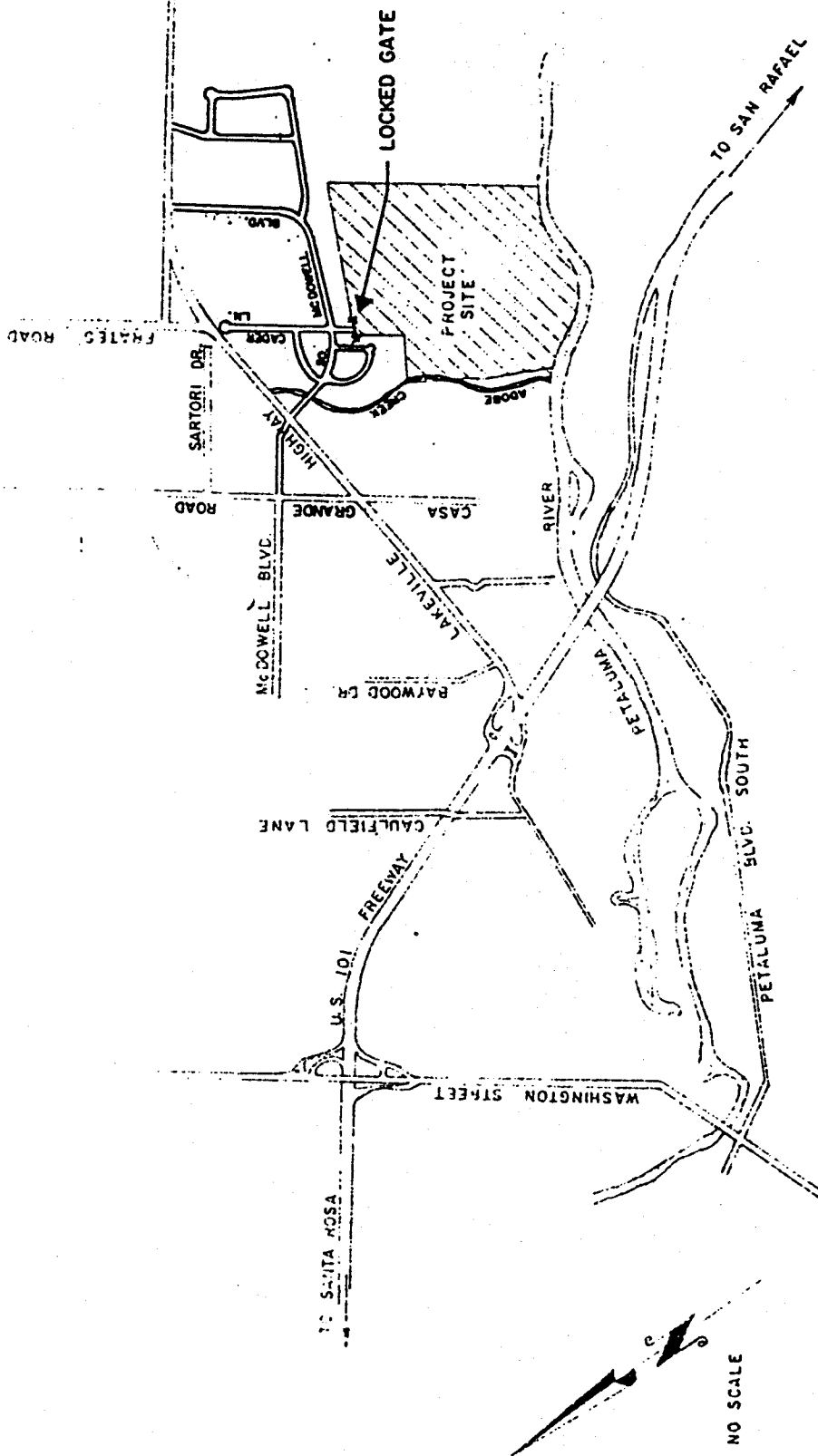
<u>Receiving Waters Background</u>	<u>Incremental Increase</u>
<50 units	5 Units, maximum
50-100 units	10 units, maximum
>100 units	10% of background, maximum

- C. The groundwater shall not be degraded as a result of the sediment disposal and handling operation.

D. PROVISIONS

1. The discharge of silt, sand, soil, clay or other earthen materials from dredging, construction or any other on-shore operation in quantities sufficient to cause deleterious bottom deposits or turbidity or discoloration in excess of natural background levels in surface waters is prohibited.
2. Dredging operations shall cease immediately whenever violations of requirements are detected through implementation of the Self-Monitoring Program (SMP) and operations shall not resume until alternative methods of compliance are provided. The discharger shall notify the Regional Board immediately whenever violations are detected and operations shall not resume until the Executive Officer of the Regional Board staff has approved the corrective action plan that will provide alternative methods of compliance.
3. The discharger shall submit to the Board copies of all sediment testing results for approval by the Executive Officer, prior to the commencement of dredging.
4. The discharger shall file with the Regional Board monthly self-monitoring reports performed according to the attached Self-Monitoring Program issued by the Executive Officer, or any subsequent revision.
5. All reports pursuant to these Provisions shall be prepared under the supervision of a registered civil engineer or certified engineering geologist.
6. The discharger shall ensure that the foundation of the site, the levees surrounding the site, and the structures which control leachate, decant water, or surface drainage, are designed, constructed and maintained to withstand conditions generated during the maximum probable earthquake.

7. The discharger shall install any additional leachate monitoring devices required to fulfill the terms of any Self-Monitoring Program issued to the discharger in order that the Board may evaluate compliance with the conditions of this order.
8. The discharge of any hazardous, designated or non-hazardous waste as defined in Title 23, Division 3, Chapter 15 of the California Administrative Code, to the disposal site is prohibited. Only dredged material that has been demonstrated to be non-hazardous may be discharged to the disposal site.
9. The Discharger shall remove and relocate any wastes which are discharged at this site in violation of these requirements.
10. The discharger shall file with this Board a report of any material change or proposed change in the character, location, or quantity of this waste discharge. For the purpose of these requirements, this includes any proposed change in the boundaries of the disposal areas or the ownership of the site.
11. The discharger shall maintain a copy of this Order at the site so as to be available at all times to site operating personnel.
12. The property owner and site operator is considered to have full responsibility for correcting any and all problems which arise in the event of a failure which results in an unauthorized release of waste or wastewater.
13. The discharger shall maintain all devices or designed features installed in accordance with this Order such that they function without interruption for the life of the operation.
14. The ultimate off-site disposal of the dried dredge material is subject to the approval of the Executive Officer. This approval shall be based upon a demonstration that the ultimate disposal will occur at a site which has Waste Discharge Requirements (WDR) from this Regional Board or a site that has received a waiver of WDR.
15. The Discharger shall permit the Regional Board or its authorized representative, upon presentation of identification:
 - a. Entry on to the premises on which wastes are located or in which records are kept.
 - b. Access to copy any records required to be kept under the terms and conditions of this Order.
 - c. Inspection of any treatment equipment, monitoring equipment, or monitoring method required by this Order.
 - d. Sampling of any discharge or surface water covered by this Order.



VICINITY MAP

Attachment A

CALIFORNIA REGIONAL WATER QUALITY CONTROL PLAN
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR

CITY OF PETALUMA
PETALUMA RIVER MAINTENANCE DREDGING
SEDIMENT DISPOSAL SITE
SONOMA COUNTY

Part A

Refer to applicable sections of Part A.

Delete Sections:

D.1.a., D.2.a., D.2.d., D.2.e., D.2.g., D.2.h., D.3., E.4., F.3., F.4. F. 5., G.5.

Insert Sections:

D.2.a. Samples of effluent and receiving waters shall be collected at times coincident with influent sampling unless otherwise stipulated. The Regional Board or Executive Officer may approve an alternative sampling plan if it is demonstrated that expected operating conditions warrant a deviation from the standard sampling plan.

D.2.d. If analytical results are received showing any instantaneous maximum limit is exceeded, a confirmation sample shall be taken within 24 hours and results known within 24 hours of the sampling.

D.2.e. If any instantaneous maximum limit for a constituent is exceeded in the confirmation sample described in Section D.2.d., the discharge shall be terminated until the cause of the violation is found and corrected. For other violations, the discharger shall implement procedures that are acceptable to the Executive Officer on a case by case basis.

ATTACHMENT C.

CALIFORNIA REGIONAL WATER QUALITY CONTROL PLAN
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Part B

This portion of the Self Monitoring Program (SMP) contains terms and definitions specific to the permitted discharge.

I. DESCRIPTION OF SAMPLING STATIONS

A. RECEIVING WATERS (Return Flow)

- A1. Located at the point of discharge to the receiving water.
- B1. Located within 100 feet downstream of the discharge to the receiving water. Sample shall be taken at mid-depth of water column.
- AU. Located at least 150 feet upstream of the discharge to the receiving water. Sample to be taken at mid-depth of water column.

B. RECEIVING WATERS (Dredging Plume)

II. LAND OBSERVATIONS

- L1-L8 Visual observations at points equidistant along the perimeter levee not to exceed 2,000 feet spacing.

III. SCHEDULE OF SAMPLING, ANALYSIS AND OBSERVATIONS

A. The following table is to be implemented as a principle part of the SMP and is written specifically for the discharge described in this permit.

Parameter	Stations A1 and AU.	Station B	Stations L1-L8
Type of Sample	Grab	Grab	Observations
Settleable Matter (ml/1-hr)	Daily	Weekly/ per Episode	
pH	Daily	Weekly/ per Episode	
Dissolved Sulfide (mg/l)	Daily	Weekly/ per Episode*	
Dissolved Oxygen (mg/l)	—	Weekly/ per Episode	
Temperature (°C)		Weekly/ per Episode	
Turbidity (JTU)		Weekly/ per Episode	
Standard Observations			Weekly/ per Episode
Bioassay (96-hr)	Bimonthly**	—	
Metals	Weekly/ per Episode		

* To be performed if D.O. drops below 5.0 mg/l at Station A.

** Test to be carried out using standard ASTM protocol for Pacific Oyster (*Crassostea gigas*) larvae or other method as approved by the Executive Officer.

I, Steven R. Ritchie, Executive Officer, do hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedures set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 92-080.
2. Was adopted by the Board on July 15, 1992.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by Executive Officer or Regional Board.



Steven R. Ritchie
Executive Officer